Assignment-Linux

Q.1 Create a directory.

```
lt-vijenders@lt-vijenders:~$ #1 make a directory?
lt-vijenders@lt-vijenders:~$ mkdir linuxAssignment
lt-vijenders@lt-vijenders:~$ ls -al linuxAssignment/
total 8
drwxrwxr-x  2 lt-vijenders lt-vijenders 4096 Jul 12 22:47 .
drwxr-x--- 24 lt-vijenders lt-vijenders 4096 Jul 12 22:47 ..
```

Q.2 Swithc to this directory.

```
lt-vijenders@lt-vijenders:~$ #Q2 Switch to this directory?
lt-vijenders@lt-vijenders:~$ cd ~/linuxAssignment/
lt-vijenders@lt-vijenders:~/linuxAssignment$ pwd
/home/lt-vijenders/linuxAssignment
```

Q.3 Create a normal text file.

```
lt-vijenders@lt-vijenders:~/linuxAssignment$ #Q3 Create a normal text file?
lt-vijenders@lt-vijenders:~/linuxAssignment$ ls -al
total 8
drwxrwxr-x  2 lt-vijenders lt-vijenders 4096 Jul 12 22:47 .
drwxr-x--- 24 lt-vijenders lt-vijenders 4096 Jul 12 22:47 ..
lt-vijenders@lt-vijenders:~/linuxAssignment$ touch practice.txt
lt-vijenders@lt-vijenders:~/linuxAssignment$ ls -al
total 8
drwxrwxr-x  2 lt-vijenders lt-vijenders 4096 Jul 12 22:52 .
drwxr-x--- 24 lt-vijenders lt-vijenders 4096 Jul 12 22:47 ..
-rw-rw-r--  1 lt-vijenders lt-vijenders    0 Jul 12 22:52 practice.txt
lt-vijenders@lt-vijenders:~/linuxAssignment$
```

Q.4 Create a hidden text file.

```
lt-vijenders@lt-vijenders:~/linuxAssignment$ #Q4 Create a hidden file?
lt-vijenders@lt-vijenders:~/linuxAssignment$ touch .txt
lt-vijenders@lt-vijenders:~/linuxAssignment$ ls -al
total 8
drwxrwxr-x  2 lt-vijenders lt-vijenders 4096 Jul 12 22:54 .
drwxr-x--- 24 lt-vijenders lt-vijenders 4096 Jul 12 22:47 ..
-rw-rw-r--  1 lt-vijenders lt-vijenders    0 Jul 12 22:52 practice.txt
-rw-rw-r--  1 lt-vijenders lt-vijenders    0 Jul 12 22:54 .txt
lt-vijenders@lt-vijenders:~/linuxAssignment$
```

Q.5 Modify the access of the hidden text file so that it can be edited only by root user.

```
lt-vijenders@lt-vijenders:~/linuxAssignment$ #Q5 Modify the access of the file so that it can be accessed by onlt the root?
lt-vijenders@lt-vijenders:~/linuxAssignment$ chmod 000 .txt
lt-vijenders@lt-vijenders:~/linuxAssignment$ ls -al .txt
---------- 1 lt-vijenders lt-vijenders 0 Jul 12 22:54 .txt
lt-vijenders@lt-vijenders:~/linuxAssignment$
```

Q.6 Move the hidden file to your desktop

```
lt-vijenders@lt-vijenders:~/linuxAssignment$ #Q6 Move the hidden file to your desktop?
lt-vijenders@lt-vijenders:~/linuxAssignment$ sudo mv .txt ~/Desktop/

[sudo] password for lt-vijenders:
Sorry, try again.
[sudo] password for lt-vijenders:
lt-vijenders@lt-vijenders:~/linuxAssignment$ ls -al
total 8
drwxrwxr-x  2 lt-vijenders lt-vijenders 4096 Jul 12 23:00 .
drwxr-x--- 24 lt-vijenders lt-vijenders 4096 Jul 12 22:47 ..
-rw-rw-r--  1 lt-vijenders lt-vijenders    0 Jul 12 22:52 practice.txt
```

Q.7. Create a directory, add 3 files into it and then remove the whole directory.

```
lt-vijenders@lt-vijenders:~/linuxAssignment$  # Q7 Create directory, add three files into it, and remove the whole directory.
lt-vijenders@lt-vijenders:~/linuxAssignment$ mkdir ques7dir
lt-vijenders@lt-vijenders:~/linuxAssignment$ cd ques7dir/
lt-vijenders@lt-vijenders:~/linuxAssignment/ques7dir$ toch t1.txt
Command 'toch' not found, did you mean:
  command 'touch' from deb coreutils (8.32-4ubuntu2)
  command 'loch' from deb therion-viewer (5.5.7ds1-1ubuntu1)
Try: sudo apt install <deb name>
lt-vijenders@lt-vijenders:~/linuxAssignment/ques7dir$ touch t1.txt
lt-vijenders@lt-vijenders:~/linuxAssignment/ques7dir$ touch t2.txt
lt-vijenders@lt-vijenders:~/linuxAssignment/ques7dir$ touch t3.txt
lt-vijenders@lt-vijenders:~/linuxAssignment/ques7dir$ ls
t1.txt  t2.txt  t3.txt
lt-vijenders@lt-vijenders:~/linuxAssignment/ques7dir$ cd ..
lt-vijenders@lt-vijenders:~/linuxAssignment$ rm -r ques7dir/
lt-vijenders@lt-vijenders:~/linuxAssignment$ 
```

Q.8. Create a new user group.

```
lt-vijenders@lt-vijenders:~$ sudo groupadd newGroup
[sudo] password for lt-vijenders:
groupadd: group 'newGroup' already exists
lt-vijenders@lt-vijenders:~$ 
```

Q.9. Create a new user and assign a new user home and the previously created usergroup to the user.

```
lt-vijenders@lt-vijenders:~$ sudo useradd -d /home/v4/ -m -G newGroup v4
lt-vijenders@lt-vijenders:~$ gedit /etc/group
```

Q.10. Create a symbolic link in a different location for the file created in step 3.

```
lt-vijenders@lt-vijenders:~$ cd Downloads
lt-vijenders@lt-vijenders:~/Downloads$ touch viru.txt
lt-vijenders@lt-vijenders:~/Downloads$ ln ~/Downloads/viru.txt ~/Desktop
lt-vijenders@lt-vijenders:~/Downloads$ 
```

Q.11. Open google chrome or any other web browser, see its memory usage using top command and end the process using the ps and grep commands.

```
lt-vijenders@lt-vijenders:~$ ##Open google chrome or any other web browser, see its memory usage using top command and end the process using the ps and grep commands.
lt-vijenders@lt-vijenders:~$ ps axu | grep 'chrome'
lt-vije+  10607  6.0  1.4 34134048 226288 ?    SLl  12:14  0:03 /opt/google/chrome/chrome --enable-crashpad
lt-vije+  10616  0.0  0.0 33576780 3172 ?      Sl   12:14  0:00 /opt/google/chrome/chrome_crashpad_handler --monitor-self --monitor-self-annotation=ptype=crashpad-handler --databa
.config/google-chrome/Crash Reports --metrics-dir=/home/lt-vijenders/.config/google-chrome --url=https://clients2.google.com/cr/report --annotation=channel= --annotation=lsb-release=
ion=plat=Linux --annotation=prod=Chrome_Linux --annotation=ver=103.0.5060.114 --initial-client-fd=5 --shared-client-connection
lt-vije+  10618  0.0  0.0 33567544 1612 ?      Sl   12:14  0:00 /opt/google/chrome/chrome_crashpad_handler --no-periodic-tasks --monitor-self-annotation=ptype=crashpad-handler --c
```

Q.12. Use ssh and scp commands to download and modify files on an external machine.
SSH

```
lt-vijenders@lt-vijenders:~$ ssh lt-nikhilks@172.28.0.161
lt-nikhilks@172.28.0.161's password:
Welcome to Ubuntu 22.04 LTS (GNU/Linux 5.15.0-39-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

0 updates can be applied immediately.

*** System restart required ***


Last login: Wed Jul 13 12:36:21 2022 from 172.28.2.112
```

SSC